

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (Currently Amended) An apparatus, comprising modulating means for performing multi-carrier modulations wherein it further comprises:
processing means for retrieving a digital value corresponding to the type of modulation associated with a transmission signal;
converting means converting said retrieved digital value corresponding to the type of modulation associated with a transmission signal to an analog signal,
amplifying means for amplifying the transmission signal, controlled by the analog signal converted from said retrieved digital value corresponding to the type of modulation associated with a transmission signal, decreasing bias current when decreasing the efficiency per bit of the digital modulation and vice versa.
2. (Previously Presented) The apparatus of claim 1, further comprising signal transmitting means for wirelessly transmitting said transmission signal.
3. (Previously Presented) The apparatus of claim 1, wherein said type of modulation includes one of:
bi-phase shift keyed modulation;
quadrature phase shift keyed modulation; and
quadrature amplitude modulation.
4. (Previously Presented) The apparatus of claim 1, wherein said transmitter apparatus is part of a mobile transceiver having a battery power supply.

5. (Currently Amended) A method for controlling a transmitter apparatus, comprising:
 - identifying and retrieving a digital value corresponding to a type of digital modulation for a transmission signal;
 - converting said retrieved digital value corresponding to a type of digital modulation for a transmission signal to an analog signal; and
 - controlling power amplification of said transmission signal using said analog signal converted from said retrieved digital value corresponding to a type of digital modulation for a transmission signal in decreasing a bias current of the amplifier when decreasing the efficiency per bit of the digital modulation and vice versa.
6. (Previously Presented) The method of claim 5 further comprised of wirelessly transmitting said transmission signal.
7. (Previously Presented) The method of claim 5, wherein said digital value is based on the crest factor.
8. (Previously Presented) The method according to claim 5 wherein bias current is decreased when digital modulation is changed from 64 QAM 3/4 to BPSK 1/2.
9. (Previously Presented) The method according to claim 7 wherein it is in compliance with one of the standards belonging to the set comprising:
 - Hiperlan type 2;
 - IEEE 802.11a;
 - DVB-T 802.16a
10. (Previously Presented) The method of claim 5, wherein said type of digital modulation includes one of:
 - bi-phase shift keyed modulation;
 - quadrature phase shift keyed modulation; and
 - quadrature amplitude modulation.

11. (Currently Amended) An apparatus, comprising:
 - a processor for retrieving a digital value corresponding to the type of modulation associated with a transmission signal;
 - a digital analog converter converting said retrieved digital value corresponding to the type of modulation associated with a transmission signal to an analog signal;
 - a power amplifier for amplifying the transmission signal, controlled by the analog signal converted from said retrieved digital value corresponding to the type of modulation associated with a transmission signal, decreasing bias current when decreasing the efficiency per bit of the digital modulation and vice versa.
12. (Previously Presented) The apparatus of claim 11, further comprising a signal transmitting element operative to wirelessly transmit said transmission signal.
13. (Previously Presented) The apparatus of claim 11, wherein said type of digital modulation includes one of:
 - bi-phase shift keyed modulation;
 - quadrature phase shift keyed modulation; and
 - quadrature amplitude modulation.
14. (Previously Presented) The apparatus of claim 11, further comprising a modulator operative to perform a plurality of different types of digital modulation.
15. (Previously Presented) The apparatus of claim 11, wherein said apparatus is embodied as a mobile transceiver having a battery power supply.